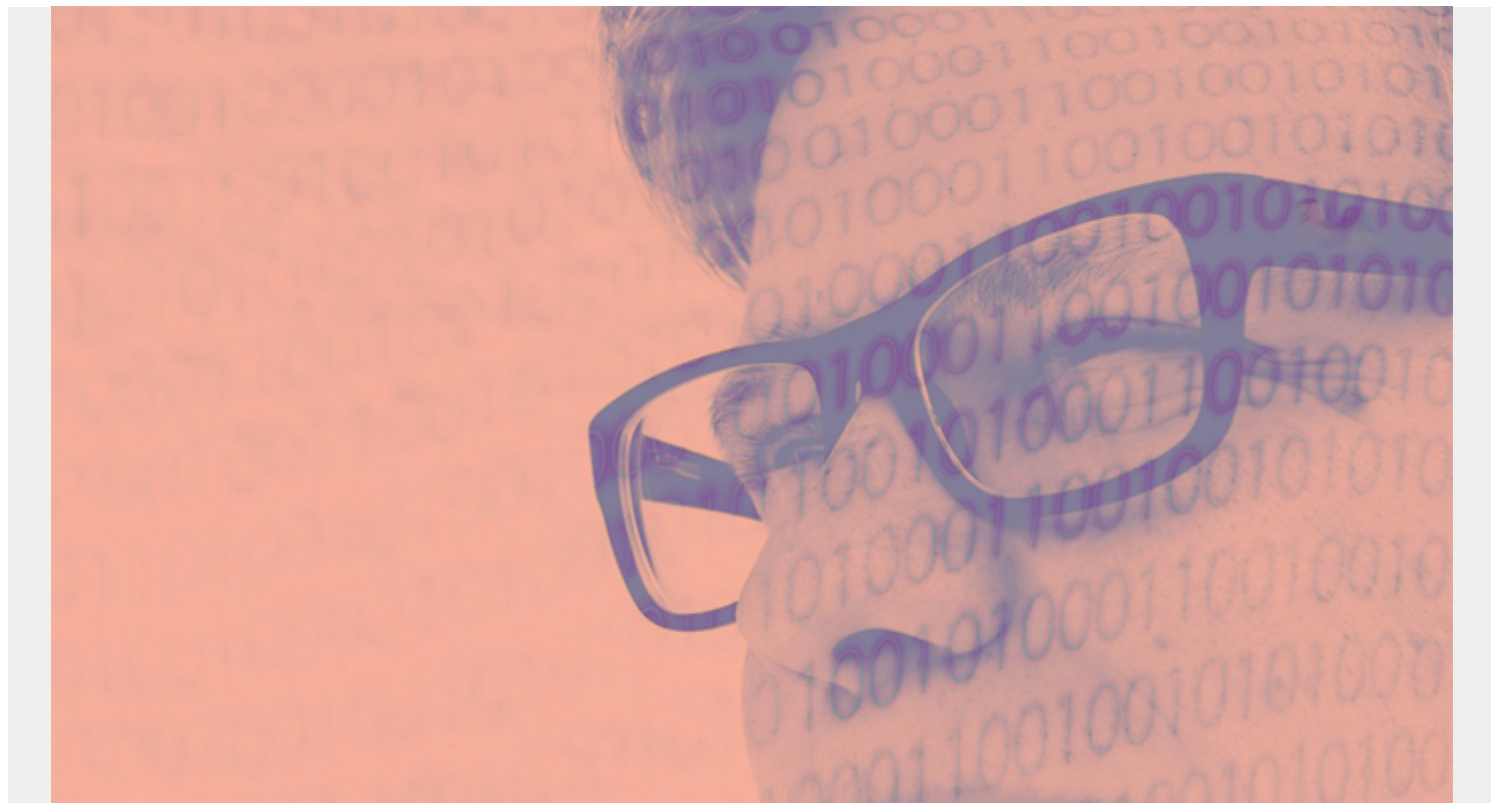


SQL CONTROL STATEMENTS IN DB2 12



SQL CONTROL STATEMENT

```
>>__assignment-statement_____><
|_CALL statement_____|
|_CASE statement_____|
|_compound-statement__|
|_FOR statement_____|
|_GET DIAGNOSTICS stmt_|
|_GOTO statement_____|
|_IF statement_____|
|_ITERATE statement____|
|_LEAVE statement_____|
|_LOOP statement_____|
|_REPEAT statement____|
|_RESIGNAL statement___|
|_RETURN statement____|
|_SIGNAL statement____|
|_WHILE statement_____|
```

(This article is part of our [Db2 Guide](#). Use the right-hand menu to navigate.)

Assignment

```
>> _____ SET _____ assignment-clause _____ ><
|_label:_| assignment-clause: > _____ SQL-parameter-name__=_CURRENT
SERVER _____ >< | |_SQL-variable-name_| |_CURRENT
PACKAGESET _____ |
| _____ | _____ I_CURRENT PACKAGE PATH__| _____ | | | |
| _____ <_, _____ | _____ |
| _____ SQL-parameter-name__=_expression_| _____ |
| |_SQL-variable-name_| ||_NULL_____| _____ |
| _____ <_, _____ <_, _____ | _____ |
|_(_ _____ SQL-parameter-name_|_)_=_(_expression_| _____ |
| _____ I_SQL-variable-name_| ||_NULL_____| _____ |
| _____ I_VALUES_____expression_____| _____ |
| _____ ||_NULL_____| _____ |
| _____ <_, _____ | _____ |
| _____ I_(expression_|_)_| _____ |
| _____ I_NULL_____| _____ |
```

CALL

```
>> __CALL__procedure-name _____ >
> _____ ><
|_(_ _____ )_|
| _____ |
| _____ <_, _____ | _____ |
| _____ SQL-variable-name _____ | _____ |
| _____ I_SQL-parameter-name _____ | _____ |
| _____ I_expression _____ | _____ |
| _____ I_NULL _____ | _____ |
```

CASE

```
> __CASE _____ searched-case-statement-when-clause _____ >
| _____ I_simple-case-statement-when-clause__| _____ |
> _____ END CASE _____ >
| _____ < _____ | _____ |
| _____ I_ELSE _____ SQL-procedure-statement__;_| _____ |
```

searched-case-statement-when-clause:

```
< _____
| _____ < _____ | _____ |
> _____ WHEN__search-condition__THEN _____ SQL-procedure-statement__;_| _____ >
```

simple-case-statement-when-clause:

```
> __expression _____>
< _____
< _____ | > __WHEN__expression__THEN__SQL-procedure-
statement__ ; _|_| _____>

</ _____></ _____
_____>
```

Compound

```
>> _____BEGIN__| _____| _____>
    | _label:_|
> _____>
    | < _____ | | _____SQL-variable-
declaration____;_|_| | _condition-declaration____| | _return-codes-
declaration_|
> _____>
    | < _____ |
    | _____DECLARE-CURSOR-statement__ ;_|_|
        < _____
> _____SQL-procedure-statement__ ;_| _____>
    | < _____ | | _____handler-declaration__ ;_|_|
> __END_____><
| _label_| SQL-variable-declaration:
>> __DECLARE_____>
    <_, _____ _DEFAULT NULL_____> __SQL-variable-name_| _data-
type_| _____| _____>< | | _DEFAULT__constant_| |
| _RESULT_SET_LOCATOR VARYING_____| condition-declaration:
>> __DECLARE__condition-name__CONDITION__FOR__string-constant_____><
| _SQLSTATE_____| | _VALUE_| return-codes-declaration: _DEFAULT
'00000'_____>> __DECLARE__
__SQLSTATE__CHAR(5)_____| _____| _____>< |
| _DEFAULT__constant_____| | | _DEFAULT 0_____|
| _SQLCODE__INTEGER_____| _____|_| | _DEFAULT__constant
statement-declaration: >> __DECLARE__statement-
name__STATEMENT_____>< handler-declaration:
>> __DECLARE__CONTINUE__HANDLER__FOR_____>
    | _EXIT_____|
> __specific-condition-value_____SQL-procedure-statement_____><
| _general-condition-value_|
```

specific-condition-value:

```
    <_, _____ _VALUE_ |
>> _____SQLSTATE_| _____| _string_| _____><
| _condition-name_____| general-condition-value:
```

```
>>__SQLEXCEPTION____><
I_SQLWARNING__I
    I_NOT FOUND____I
```

FOR

```
>>_____FOR_____>
I_label:_I    I_for-loop-name_AS_I    _WITHOUT HOLD_    I
                                I_csr-name_CURSOR_I_____I_FOR_I
                                I_WITH HOLD__I
                                <_____>_select-statement__DO__SQL-
procedure-statement_I_;__END FOR_____>< I_label:_I
```

GET DIAGNOSTICS

```
>>__GET DIAGNOSTICS__SQL-variable-name__=__ROW_COUNT____><
```

GOTO

```
>>_____GOTO__target-label_____><
I_label:_I
```

IF

```
                                <_____>>__IF__search-
condition__THEN____SQL-procedure-statement__;_I_____>
<_____>_____
_____I_____>
    I_____<_____I
I_ELSEIF__search-condition__THEN____SQL-procedure-statement__;_I_I
>_____END IF_____><
I_____I
    I_ELSE____SQL-procedure-statement__;_I_I
```

ITERATE

```
>>_____ITERATE__target-label_____><
I_label:_I
```

LEAVE

```
>> _____ LEAVE _____ target-label _____><
|_label:_|
```

LOOP

```
< _____>> _____ LOOP _____ SQL-procedure-
statement____;_|_END LOOP _____>< |_label:_|
|_label_|
```

REPEAT

```
< _____>> _____ REPEAT _____ SQL-procedure-
statement____;_|_>
|_label:_|
>_UNTIL_ search-condition__END REPEAT _____><
|_label_|
```

RESIGNAL

```
>> _____ RESIGNAL _____>
|_label:_|
>
|_VALUE_|
|_SQLSTATE_|_|_|_sqlstate-string-constant_| | | |
|_|_|_|_SQL-variable-name_____|_|_|_signal-information_|
|_|_|_|_SQL-parameter-name_____|_|
|_SQL-condition-name_____|
```

signal-information:

```
>>__SET MESSAGE TEXT __=__diagnostic-string-expression____>
```

RETURN

```
>> _____ RETURN _____>
|_label:_|
|_expression_____|
|_NULL_____|
|_____fullselect_|
|_|<_____|
|_WITH_common-table-expression_|_|
```

SIGNAL

```
>> _____ SIGNAL _____>
    |_label:_|
> _____>
    | _____|
    |_SQLSTATE_| _____|_sqlstate-string-constant_| |
    | _____|_SQL-variable-name_|_|_signal-information_|
    | _____|_SQL-parameter-name_||
    |_SQL-condition-name_|
```

signal-information:

```
>> __SET MESSAGE TEXT __=__diagnostic-string-expression____>
```

WHILE

```
>> _____WHILE_search-condition_DO_SQL-procedure-statement_;_END WHILE____>
    |_label:_| _____|_label_|
```

SQL Procedure statement

```
>> __SQL-control-statement____><
ALLOCATE CURSOR statement
ALTER DATABASE statement
ALTER FUNCTION statement (external scalar, external table,
sourced,
SQL scalar, or SQL table)
ALTER INDEX statement
ALTER PROEDURE statement (external, SQL-external,or SQL-
native)
ALTER SEQUENCE statement
ALTER STOGROUP statement
ALTER TABLE statement
ALTER TABLESPACE statement
ALTER TRUSTED CONTEXT statement
ALTER VIEW statement
ASSOCIATE LOCATORS statement
CALL statement
CLOSE statement
COMMENT statement
COMMIT statement
CONNECT statement
CREATE ALIAS statement
CREATE DATABASE statement
CREATE FUCNTION statement (external scalar, external table,
```

sourced)

CREATE GLOBAL TEMPORARY TABLE statement
CREATE INDEX statement
CREATE PROCEDURE statement (external)
CREATE ROLE statement
CREATE SEQUENCE statement
CREATE STOGROUP statement
CREATE TABLE statement
CREATE TABLESPACE statement
CREATE TRUSTED CONTEXT statement
CREATE TYPE statement
CREATE VIEW statement
DECLARE CURSOR statement
DECLARE GLOBAL TEMPORARY TABLE statement
DELETE statement
DROP statement
EXCHANGE statement
EXECUTE statement
EXECUTE IMMEDIATE statement
FETCH statement
GET DIAGNOSTICS statement
GRANT statement
INSERT statement
LABEL statement
LOCK TABLE statement
MERGE statement
OPEN statement
PREPARE statement
REFRESH TABLE statement
RELEASE statement
RELEASE SAVEPOINT statement
RENAME statement
REVOKE statement
ROLLBACK statement
SAVEPOINT statement
SELECT INTO statement
SET CONNECTION statement
SET special-register statement
TRUNCATE statement
UPDATE statement
VALUES INTO statement

</_----->

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Disclaimer: This Db2® 12 for z/OS Reference Guide was developed to help users in their daily activities in administrating and programming in Db2 for z/OS. There are no guarantees expressed or implied with the contents in this guide. We want to provide a quality and useful reference for users. Please notify us of any mistakes or errors in this reference guide at blogs@bmc.com. Db2 is a registered trademark of the IBM Corporation.